

BACHELOR OF COMPUTER APPLICATION Examination

BCA Semester - 4 APRIL 2025 (Regular) APRIL - 2025

CS-25: PRACTICAL BASED ON CS-22, CS -23, CS-24

Faculty Code : 003

Subject Code : 23SEBCAP-MI-04-03001

Time : 2 Hours]

[Total Marks : 50

- Q.1 Create a Java program that accepts five numbers using command line arguments and finds the largest number. 10
- OR
- Q.1 Create a method sumAll() using VARARGS in Java that accepts any number of integers and returns their sum. 10
- Q.2 Create two threads: one prints even numbers from 1 to 10, and another prints odd numbers from 1 to 10. Start both threads simultaneously. 10
- OR
- Q.2 Create a JavaFX application with two buttons: 'Say Hello' and 'Say Bye'. On clicking each, show the message in a label. 10
- Q.3 Write a C# program using ref to swap two numbers and out to return the sum and product of two numbers. 10
- OR
- Q.3 Create a list to store the names of students. Add five names and display them using a loop. 10
- Q.4 Create a Windows Forms Application in C# to insert student details into a SQL Server database. The form should have the following fields and features: 10
- TextBox for Student ID and Name
- ComboBox for Department (e.g., BCA, BCom, BBA).
- Button to Save the record
- Show confirmation using a MessageBox.
- Use Connected Architecture (SqlConnection + SqlCommand) for database insertion.
- OR
- Q.4 Design a C# Windows Forms Application to insert and view student records using Disconnected Architecture. Your application should have: 10
- TextBoxes for Student ID and Name
- ComboBox for Department (BCA, BCom, BBA)
- Buttons for:
- Add Record (adds to the DataSet)
- Save to Database (saves DataSet to SQL Server using SqlDataAdapter)
- View Records (displays records from the DataSet in a DataGridView)
- Use a MessageBox to confirm saving
- Use SqlDataAdapter and DataSet (Disconnected Architecture)
- Q.5 Write a shell script to display the top 5 most frequently used words in a file named input.txt. Redirect the output to top_words.txt. 10
- OR
- Q.5 Write a shell script to calculate the factorial of a number entered by the user. 10